



# OFFICE OF THE GOVERNOR

Monthly Statewide Tribal Consultation Call on  
Drought Response

March 17, 2015

California Natural Resources Building



## Governor's Drought Task Force



**Cal OES**  
GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES



## Agenda



# State and Federal Partners Participating

- **Cynthia Gomez**, Governor's Tribal Advisor
- **Nancy Ward**, Deputy Director (CalOES)
- **Gita Kapahi**, Ombudsman & Tribal Liaison (SWRCB)
- **Bob Nozuka**, Supervising Engineer (DWR)
- **Anecita Agustinez**, Tribal Policy Advisor (DWR)
- **John Andrew, P.E.**, Assistant Deputy Director (DWR)
- **Donald Brafford, P.E.**, Director (IHS)

# Governor's Office of Emergency Services



**Nancy Ward**  
Deputy Director  
Cal OES

## Bi-Weekly Drought Brief

### Thursday, March 5, 2015

#### CURRENT CONDITIONS

**Recent Precipitation:** Last week's storm brought rain mainly to the southern portions of the state, along with some snow in the mountains. Precipitation totals over California in the past week ranged from a few tenths of an inch in the Central Valley and northern part of the state to over 1.5 inches in the Central and Southern Sierras and Southern California.

Below are precipitation totals (in inches) from Monday, February 23, through Monday, March 2, and year-to-date rainfall based on the water year cycle (October 1, 2014 to September 30, 2015).

- |                                |                                 |
|--------------------------------|---------------------------------|
| • Bakersfield: 0.83" (4.32")   | • Pacific House: 0.88" (22.92") |
| • Folsom Dam: 0.00" (23.30")   | • Redding: 0.00" (28.80")       |
| • Fresno: 0.49" (4.53")        | • Riverside: 0.70" (4.59")      |
| • Hetch Hetchy: 0.47" (12.63") | • Sacramento: 0.00" (11.60")    |
| • Los Angeles: 0.72" (6.51")   | • San Diego: 0.93" (6.23")      |
| • Modesto: 0.00" (9.16")       | • Shasta Dam: 0.00" (45.76")    |
| • Oroville: 0.28" (22.92")     | • Willits: 0.00" (34.36")       |

**Precipitation Forecast:** High pressure will remain over much of the state into the start of next week, continuing the warming trend with very dry conditions. Low pressure may reach the California coast with precipitation possible by the middle of next week.

**Snow Survey:** The March [manual snowpack survey](#), based on 180 snow courses, recorded California snowpack at 13% of normal to date, and 11% of the April 1 average. The snowpack as measured on March 2, using [automated sensors](#) shows snowpack at 19% of average to date, and 17% of the April 1 average. The automated sensor results captured the additional snowpack, resulting from the latest storm over the past weekend which may not have been reflected in the manual survey.

**Reservoir Levels (% capacity):** Since the last report on February 23, Central Valley reservoirs from Shasta and Trinity in the North to Isabella in the South gained just under 500,000 acre-feet in net storage. Shasta led all reservoirs with over 186,000 acre-feet in net storage gain. San Luis Reservoir, an off-stream reservoir for the Central Valley Project and State Water Project, continue to gain storage with a net increase of over 122,000 acre-feet since February 23.

**Reservoir Levels** as of March 1 remain low, including: Castaic Lake 30% of capacity (35% of year to date average); Don Pedro 43% of capacity (60% of average); Exchequer 8% of capacity (16% of average); Folsom Lake 58% of capacity (104% of average); Lake Oroville 49% of capacity (70% of average); Lake Perris 35% (42% of average); Millerton Lake 38% of capacity (57% of average); New Melones 25% of capacity (41% of average); Pine Flat 16% of capacity (30% of average); San Luis 64% of capacity (75% of average); Lake Shasta 58% of capacity (79% of average); and Trinity Lake 47% of capacity (63% of average). An update of water levels at [other smaller reservoirs](#) is also available.

**Fire Activity:** CAL FIRE has responded to over 220 wildfires across the state since January 1, including the Stephens Fire in Siskiyou County, which has burned 200 acres and is 95% contained. CAL FIRE continues to monitor the drought situation and prepare for the wildfire season ahead while maintaining staffing that meets the current threat. Should the need arise, CAL FIRE is positioned to augment staffing as required.

**Statewide Open Burn Ban Update:** Due to recent rain, local outdoor burn bans have been lifted across much of the State. Most areas still require homeowners to obtain a burn permit. For those areas where the ban has been lifted, daily fire and weather conditions will dictate whether burning is permissible that day. The [burn ban](#), issued last July, prohibits certain outdoor burning in the State Responsible Areas (SRA).

**Vulnerable Water Systems:** The State Water Board's [Drinking Water Program](#) continues to provide technical and funding assistance to several communities facing drinking water shortages, and is monitoring water systems across the state to determine if new support is needed.

As of this week, \$13.9 million has been identified for specific emergency drinking water projects out of \$15 million appropriated in March 2014. According to the Drinking Water Program, five pending projects were removed due to eligibility criteria since the last drought brief, which made available \$1.1 million to redistribute and provide funding assistance to other communities facing drinking water shortages.

#### KEY ACTION ITEMS FROM THIS WEEK

- **Californians' Water Savings Dips in January, an Exceptionally Dry Month:** On Tuesday, March 3, the State Water Board released water conservation rates for the month of January as reported by large urban retail water agencies under the Emergency Conservation Regulation adopted in July 2014. Californians' water savings declined significantly from 22% in December to 8.8% in January. January followed a very wet December 2014, which reduced the need for outdoor water use and likely contributed to the high conservation rate in December. On Tuesday, March 17, the State Water Board will consider a proposed emergency regulation to both extend the current set of individual prohibitions and supplier requirements, and make additional changes to improve their effectiveness.
- **State Water Board Issues Revised Order to the State and Federal Projects:** On Tuesday, March 3, the State Water Board's Executive Director issued a revised order that modifies the February 3 order approving urgency changes to Delta standards for the State and Federal Water Projects. These changes will address concerns raised at the February 18 workshop. The State Water Board is also responding to additional urgency requests for changes in water rights permits due to the drought. These include changes for the City of Santa Cruz, City of Thousand Oaks, the June Lake Public Utility District and the Walker River Irrigation District.
- **Rains of December and Early February Allow Slight Increase in SWP Deliveries:** On Tuesday, March 3, the Department of Water Resources (DWR) announced that the storms of mid-December and early February have allowed water officials to make a small increase in water deliveries to most customers of the State Water Project (SWP), [increasing the allocations from 15% to 20%](#). DWR officials cautioned, however, that despite the storms of December and early February, 2015 is shaping up to be a critically dry fourth consecutive year of drought.



- **Reclamation Announces Initial Zero Water Allocation for Many Ag Users North and South of Delta:** On Friday, February 27, the U.S. Bureau of Reclamation (USBR) announced an initial allocation of 3 million acre-feet of water to farmers, wildlife refuges, and urban water users. Most of the water, 2.6 million acre-feet, will go to farmers who are senior water rights holders on the Sacramento and San Joaquin rivers. USBR announced a zero allocation for Central Valley Project (CVP) agricultural customers north and south of the Sacramento-San Joaquin Delta. Urban customers will receive sufficient water to meet health and safety needs or 25 percent of contract amounts, whichever is greater.
- **Mokelumne River Salmon Defy Drought with Help from East Bay MUD and CDFW:** On Friday, February 27, the East Bay Municipal Utility District (EBMUD) announced that more than [12,000 Chinook salmon](#) resisted the impacts of the drought last fall and returned to the Mokelumne River to spawn, which created the river's fifth-largest run in 74 years. According to EBMUD, the success of the fall Chinook run can be attributed to the Mokelumne River Fish Hatchery project, which is a partnership between EBMUD and the California Department of Fish and Wildlife.
- **Emergency Food Aid, Rental and Utility Assistance:** The Department of Social Services (CDSS) has provided to date over 525,200 boxes of food to community food banks in drought-impacted counties. Approximately 461,250 boxes of food have been picked up by 244,414 households. By this Friday, February 27, an additional 11,882 boxes will be delivered to eight counties. Local food banks continue to target food aid to residents most impacted by drought.

The non-profit group La Cooperativa continues to distribute the \$10 million state-funded emergency rental assistance to impacted families and individuals across counties most impacted by the drought. As of Tuesday, February 24, the Department of Housing and Community Development (HCD) has reported that a total of \$8,587,538 is committed; and \$7,375,702 in funds has been issued to 4,484 applicants in 21 counties.

The Department of Community Services and Development (CSD) created a \$600,000 program to help families pay their water bills. This program targeted families through 10 agencies that are experiencing "exceptional" drought. As of January, CSD has completed the Drought Water Assistance Program Pilot.

CSD has also implemented a \$400,000 Migrant and Seasonal Farmworker (MSFW) drought assistance program, in coordination with the California Human Development (CHD), Central Valley Opportunity Center (CVOC), and Center for Employment Training (CET) and Proteus, which provides assistance in employment training and placement services to individuals impacted by the drought. As of Friday, February 20, 128 clients are enrolled in employment training programs, 33 clients have obtained employment, and 128 clients are receiving employment support services. CSD has also reported that a total of \$400,000 has been spent to assist participants in completing training employment programs.

- **Water Saving Tips Promoted Across the State:** Californians made strides in 2014 to save water during one of the worst droughts in generations. For 2015, [SaveOurWater.com](#) urges Californians to make a New Year's resolution to save water daily as a permanent lifestyle change. Save Our Water's newly revamped website makes it even easier for Californians to learn how to save water indoors, outdoors, and at work. The website features the theme "Conservation: California's Year-Round Resolution." Visitors can sign up for daily email tips

and grow the public awareness campaign by sharing Save Our Water [Twitter](#) and [Facebook](#) feeds.

This campaign will expand beyond the general public to feature corporate and business efforts. Save Our Water is also building an easy-to-use digital water calculator, to be unveiled in March that will help people figure out how much water they currently use and how certain practices could cut that volume both indoors and outdoors.

- **Drought Response Funding:** The \$687 million in state drought funding that was appropriated last March through emergency legislation, as well as \$142 million provided in the 2014 Budget Act, continues to advance toward meeting critical needs. To date, \$227 million has been expended, and nearly \$625 million of the emergency funds appropriated in March came from sources dedicated to capital improvements to water systems. Since March, the Department of Water Resources has expedited grant approvals, getting \$21 million immediately allocated to grantees that were pre-approved for certain projects. As planned in March, the next \$200 million of expedited capital funding was awarded in October, and the remaining \$250 million will be granted by fall 2015. The 2014 Budget Act appropriated an additional \$53.8 million to CAL FIRE over its typical budget to enhance firefighter surge capacity and retain seasonal firefighters beyond the typical fire season. In the event drought conditions continue through next year, the proposed 2015-16 Governor's Budget includes an additional \$115 million to continue critical drought response efforts.
- **Governor's Drought Task Force:** The Task Force continues to take actions that conserve water and coordinate state response to the drought.

#### Local Government

- **San Diego County Reduces Water Use by 28% in January:** Despite continued high temperatures in the San Diego region, the [San Diego County Water Authority](#) reported on Thursday, February 19, that county water use dropped by 28% for January as compared to January 2014 numbers. In December, the district also reduced its water usage by 29% over the previous year's figures for that month.
- **Sacramento Region Uses Less Water despite Drier, Warmer Weather:** On Thursday, February 26, the Regional Water Authority announced that the [Sacramento region](#) used less water in January compared to the previous two years despite the dry and warm weather. According to the data submitted to the State Water Board, the region's water use in January 2015 decreased 18% compared to the same month last year, and dropped 3% compared to January 2013.
- **Local Emergency Proclamations:** A total of 60 local Emergency Proclamations have been received to date from city, county, and tribal governments, as well as special districts:
  - **24 Counties:** Glenn, Inyo, Humboldt, Kern, Kings, Lake, Madera, Mariposa, Merced, Modoc, Plumas, Santa Barbara, San Bernardino, San Joaquin, San Luis Obispo, Shasta, Siskiyou, Sonoma, Sutter, Trinity, Tulare, Tuolumne, Yuba, and El Dorado.

- o **13 Cities:** City of Willits (Mendocino County), City of St. Helena (Napa County), City of Calistoga (Napa County), City of American Canyon (Napa County), City of Santa Barbara (Santa Barbara County), City of Montague (Siskiyou County), City of Live Oak (Sutter County), City of San Juan Bautista (San Benito County), City of Lodi (San Joaquin County), City of Portola (Plumas County), City of Ripon (San Joaquin County), City of Rio Dell (Humboldt County), and City of West Sacramento (Yolo County).
  - o **9 Tribes:** Hoopa Valley Tribe (Humboldt County), Yurok Tribe (Humboldt County), Tule River Indian Tribe (Tulare County), Karuk Tribe (Siskiyou/Humboldt Counties), Sherwood Valley Pomo Indian Tribe (Mendocino County), Yocha Dehe Wintun Nation (Yolo County), Cortina Indian Rancheria (Colusa County), Kashia Band of Pomo Indians of the Stewarts Point Rancheria (Sonoma County), and Picayune Rancheria of Chukchansi Indians (Madera County).
  - o **14 Special Districts:** Brooktrails Township (Mendocino County), Lake Don Pedro Community Services District (Stanislaus County), Placer County Water Agency (Placer County), Twain Harte Community Services District (Tuolumne County), Carpinteria Valley Water District (Santa Barbara County), Meiners Oaks Water District (Ventura County), Mariposa Public Utility District (Mariposa County), Goleta Water District (Santa Barbara County), Montecito Water District (Santa Barbara County), Tuolumne Utilities District (Tuolumne County), Mountain House Community Service District (San Joaquin County), Nevada Irrigation District (Nevada County), Upper San Gabriel Valley Municipal Water District (Los Angeles County), and Lake Berryessa Resort Improvement District (Napa County).
- **Water Agency Conservation Efforts:** The Association of California Water Agencies (AWCA) [has identified](#) several hundred local water agencies that have implemented water conservation actions. These water agencies [are responding to the drought](#) by implementing conservation programs, which include voluntary calls for reduced water usage and mandatory restrictions where water shortages are worst.
  - **County Drought Taskforces:** A total of 29 counties have established drought task forces to coordinate local drought response. These counties include: Butte, Glenn, Humboldt, Imperial, Kern, Kings, Lake, Madera, Mendocino, Merced, Modoc, Monterey, Nevada, Orange, Placer, Plumas, Sacramento, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Siskiyou, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, and Yolo.
  - **Tribal Taskforce:** A total of 3 tribes have established drought task forces to coordinate tribal drought response. These tribes include: Hoopa Valley Tribe (Humboldt County), Yurok Tribe (Humboldt Counties) and Sherwood Valley Tribe (Mendocino County).

#### DROUGHT RELATED WEBSITES FOR MORE INFORMATION

[Drought.CA.Gov](#): California's Drought Information Clearinghouse

State's Water Conservation Campaign, [Save our Water](#)

Local Government, [Drought Clearinghouse and Toolkit](#)

California Department of Food and Agriculture, [Drought information](#)

California Department of Water Resources, [Current Water Conditions](#)

California Data Exchange Center, [Snow Pack/Water Levels](#)

California State Water Resources Control Board, Water Rights, [Drought Info and Actions](#)

California Natural Resources Agency, [Drought Info and Actions](#)

State Water Resources Control Board, Drinking Water, [SWRCB Drinking Water Program](#)

California State Water Project, [Information](#)

[U.S. Drought Monitor](#) for Current Conditions throughout the Region

[U.S. Drought Portal](#), National Integrated Drought Information System (NIDIS)

National Weather Service [Climate Predictor Center](#)

USDA Drought Designations by County [CA County Designations](#)

USDA Disaster and Drought Assistance Information [USDA Programs](#)

U.S. Small Business Administration Disaster Assistance Office: [www.sba.gov/disaster](http://www.sba.gov/disaster)



# Cal OES Regional Administrator Contact & Tribal Point of Contact

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### **Tribal Point of Contact**

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# CA State Water Resources Control Board



**Gita Kapahi, Ombudsman and Tribal Liaison**

Office of Public Participation

State Water Resources Control Board

1001 I Street

Sacramento, CA 95814

## **TOPICS TO BE DISCUSSED**

1. Upcoming Water Rights and Water Quality Training for Tribes
2. Joint Tribal Consultation
3. Prop 1 Water Bond Upcoming Workshops
4. Update on California Drought

# **WATER RIGHTS & WATER QUALITY TRAINING FOR TRIBES**

- Potential Dates: May – October 2015
- Suggested Potential Sites/Hosts
  - Lake County
  - Cabazon
  - Owens Valley
  - Valley Center – Rincon Band of Luiseno Indians
  - Other Suggestions Welcomed

# **PROP 1**

## **CALIFORNIA WATER BOND**

<b>Water Board Program</b>	<b>Total Funds</b>
<b>Wastewater Treatment Projects</b>	\$260,000,000
<b>Safe Drinking Water</b>	\$260,000,000
<b>Stormwater Management Projects</b>	\$200,000,000
<b>Water Recycling</b>	\$625,000,000
<b>Groundwater Sustainability</b>	\$800,000,000

- **Proposition requires 30 days' notice of program guidelines prior to 3 workshops being held.**
- **Eligible Applicants - public agencies, 501(c)(3)s and tribes (including state tribes on the Native American Heritage Commission consult list) for Prop 1 resources.**



**SAVE THE DATE!**

**JOINT TRIBAL CONSULTATION PROP 1**  
**JUNE 9-10, 2015**  
**9 AM – 4 PM**

**SPONSORED  
BY**

*State Water Resources Control Board*



*California Water Commission*



*Department of Water Resources*



**LOCATION**

**CAL/EPA BYRON SHER  
AUDITORIUM  
1001 I STREET, 2ND FLOOR  
SACRAMENTO, CA 95814**

**TOPICS INCLUDE**

**DEVELOPMENT & IMPLEMENT  
GROUNDWATER PLANS & PROJECTS**

**STATEWIDE WATER SYSTEM OPERATIONAL  
IMPROVEMENT & DROUGHT**

**INTEGRATED REGIONAL WATER MANAGEMENT**

**WATER CONSERVATION & WATER USE  
EFFICIENCY PLANS, PROJECTS, & PROGRAMS**

**MULTIBENEFIT/ STORMWATER  
MANAGEMENT PROJECTS**

**STATE WATER POLLUTION CONTROL  
REVOLVING FUND-WASTEWATER TREATMENT PROJECTS**

**FLOOD MANAGEMENT**

**WATER SYSTEM INFRASTRUCTURE  
IMPROVEMENT – SAFE DRINKING WATER**

**WATER RECYCLING**

**FOR ADDITIONAL INFORMATION, CONTACT:** [tribalpolicyadvisor@water.ca.gov](mailto:tribalpolicyadvisor@water.ca.gov)

# **SMALL COMMUNITY WASTEWATER WORKSHOPS**

<b>DATE AND TIME</b>	<b>WORKSHOP LOCATION</b>
<b>Tuesday March 24<sup>th</sup> 9:30 am – 11:00 am Scoping Session for Drinking Water Guidelines 1 pm – 3 pm</b>	<b>Central Valley Regional Water Quality Control Board Kings Conference Room 1685 E. Street Fresno, CA 93706</b>
<b>Thursday March 26<sup>th</sup> 9:30 am – 11:00 am Scoping Session for Drinking Water Guidelines 1 pm – 3 pm</b>	<b>Santa Ana Regional Water Quality Control Board Highgrove Room, Suite 200 3737 Main Street, Suite 500 Riverside, CA 92501</b>
<b>Monday March 30<sup>th</sup> 9:30 am – 11:00 am Scoping Session for Drinking Water Guidelines 1 pm – 3 pm</b>	<b>CalEPA Headquarters Building Sierra Hearing Room 1001 I Street Sacramento, CA 95814</b>

# **OTHER PROP 1 PROGRAM FUNDING WORKSHOPS**

- Workshops regarding the draft guidelines for the Water Recycling Funding Program will be held separately, anticipated April 2015
- Workshops regarding the draft funding guidelines for the Clean, Safe & Reliable Drinking Water Program will be held separately, anticipated May 2015
  - Wastewater workshop dates (provided on the previous slide) will include a scoping session for input on the Drinking Water guidelines from 1:00 pm – 3:00 pm
- Workshops regarding the draft funding guidelines for Stormwater, Groundwater Sustainability and SB 445 Site Cleanup Subaccount Programs will be held separately, anticipated during 2016

# **CONSIDERATION OF ADOPTING EMERGENCY REGULATIONS DURING MARCH 17 BOARD MEETING**

## **➤ Agenda Item #7**

Consideration of a proposed resolution amending and readopting drought-related emergency regulations for urban water conservation

## **➤ Agenda Item #9**

Consideration of a proposed resolution amending and readopting a drought emergency regulation regarding informational orders



# **EMERGENCY CONSERVATION REGULATIONS**

## **WHAT IS PROHIBITED FOR EVERYONE**

- Potable water to wash sidewalks & driveways
- Runoff when irrigating with potable water
- Hoses with no shutoff nozzles to wash cars
- Potable water in decorative water features that do not recirculate the water

## **WHAT WATER SUPPLIERS MUST DO**

- Impose restrictions on outdoor irrigation
- Report on water use monthly



# **EMERGENCY REGULATIONS FOR CURTAILMENT OF DIVERSIONS TO PROTECT SENIOR WATER RIGHTS**

- Information order WR 2015-0002-DWR issued on February 4, 2015 by the Deputy Director of Water Rights to senior right holders in the matter of diversion of water from the Sacramento-San Joaquin River and Delta watershed
- Required 445 holders of over 1,061 riparian and pre-1914 claims under statement of water diversion and use to provide 2014 diversions records, projections of 2015 diversion records and their priority dates with supporting information by March 6<sup>th</sup>
- Compliance response has been positive, with over 92% of forms received
- Staff is currently reviewing the adequacy of responses

# CONTACTS



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# Department of Water Resources



**Robert Nozuka, Supervising Engineer**

DWR Drought Team Management Team

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# California's Drought

NORMAL

DRY

SEVERE

EXTREME

- Governor Declared Drought Emergency
- 2015 - Fourth dry water year statewide
- 2014 - Warmest year on record
- 2012-2014 - Driest 3 years on record
- January 2015 – Driest in most areas
- 2015 - Warmer and dry
- Statewide storage below average
- Groundwater basins continue to be depleted
- Local conditions are degrading
- High level of local, State and federal coordination

# Statewide Drought Conditions

Official State of Emergency  
Declared on  
January 17, 2014

## Local Emergencies Declared

- 25 Counties
- 13 Cities
- 9 Tribal Reservations
- 13 Special Districts

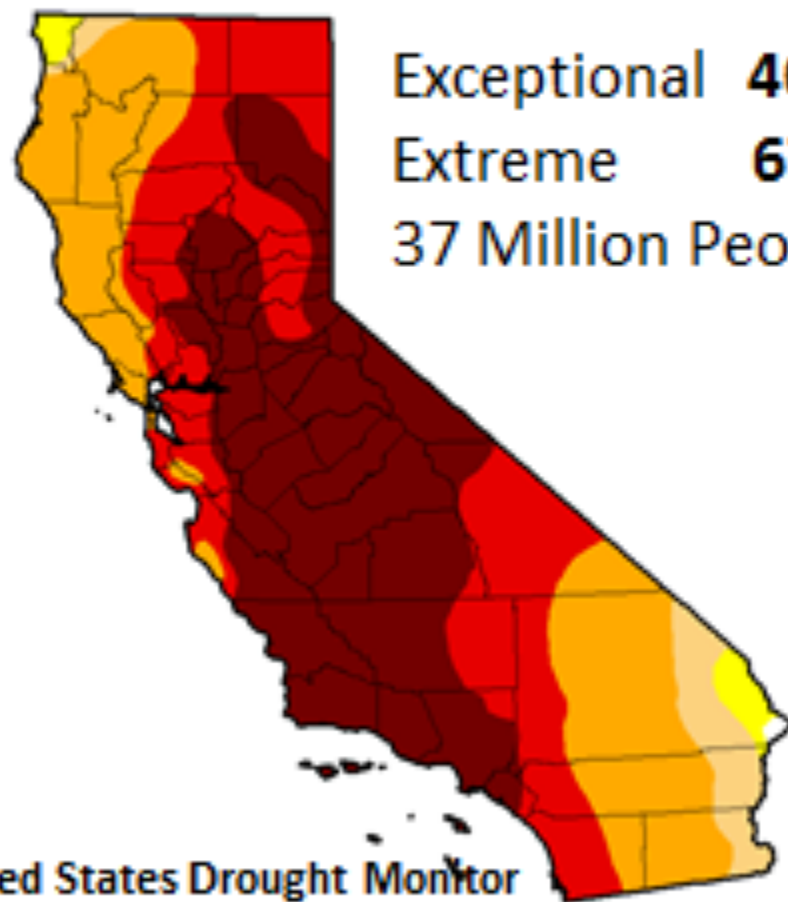
## County & Tribal Drought Task Force

- 30 Counties
- 3 Tribes

### Intensity:

D0 - Abnormally Dry  
D1 - Moderate Drought  
D2 - Severe Drought

D3 - Extreme Drought  
D4 - Exceptional Drought

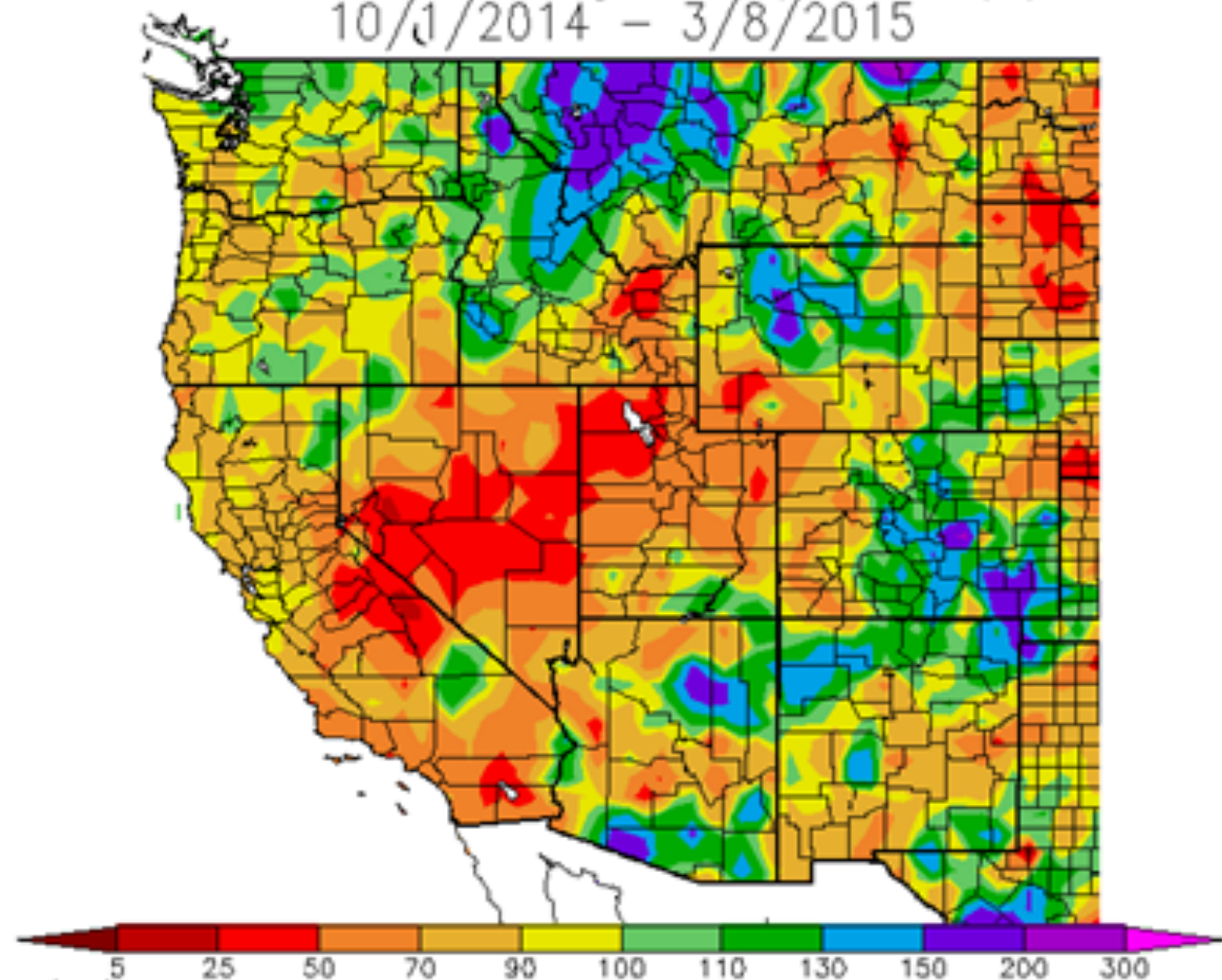


United States Drought Monitor

March 3, 2015



Percent of Average Precipitation (%)  
10/1/2014 – 3/8/2015



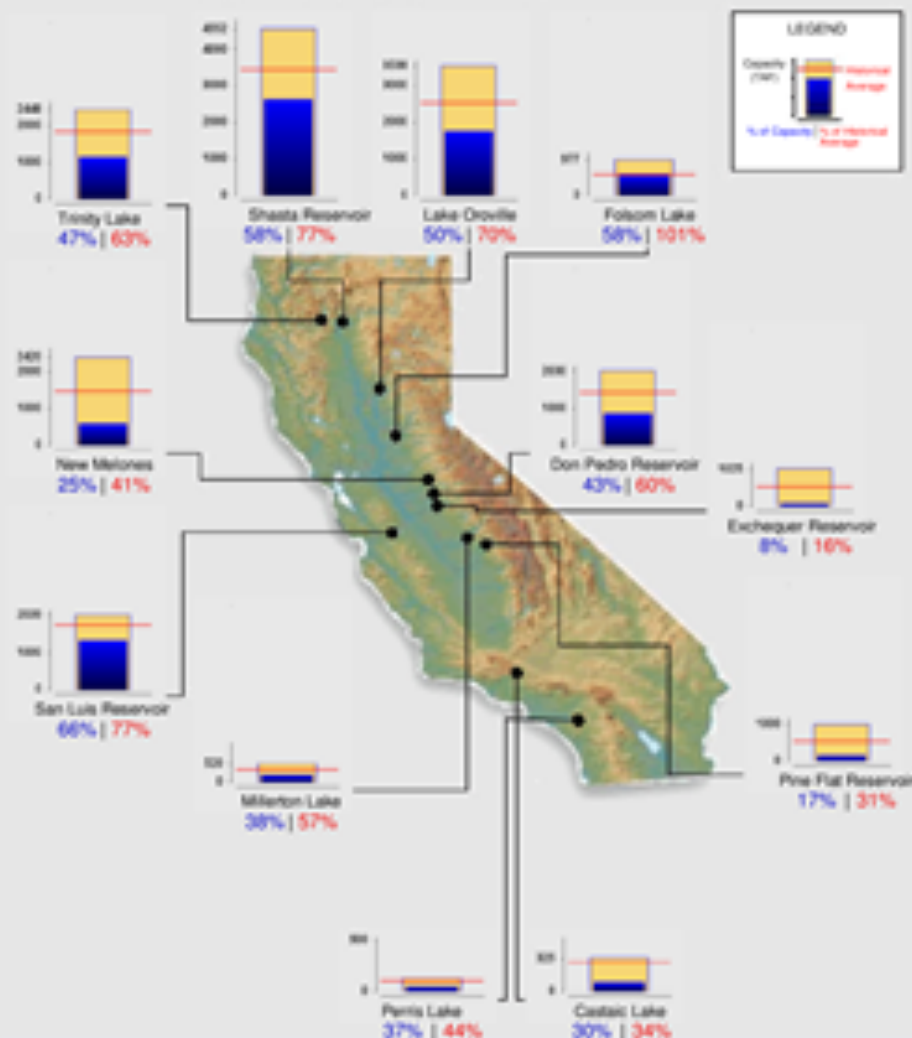
Generated 3/09/2015 at WRCC using provisional data.



# Reservoir Conditions

Ending At Midnight - March 9, 2015

## CURRENT RESERVOIR CONDITIONS



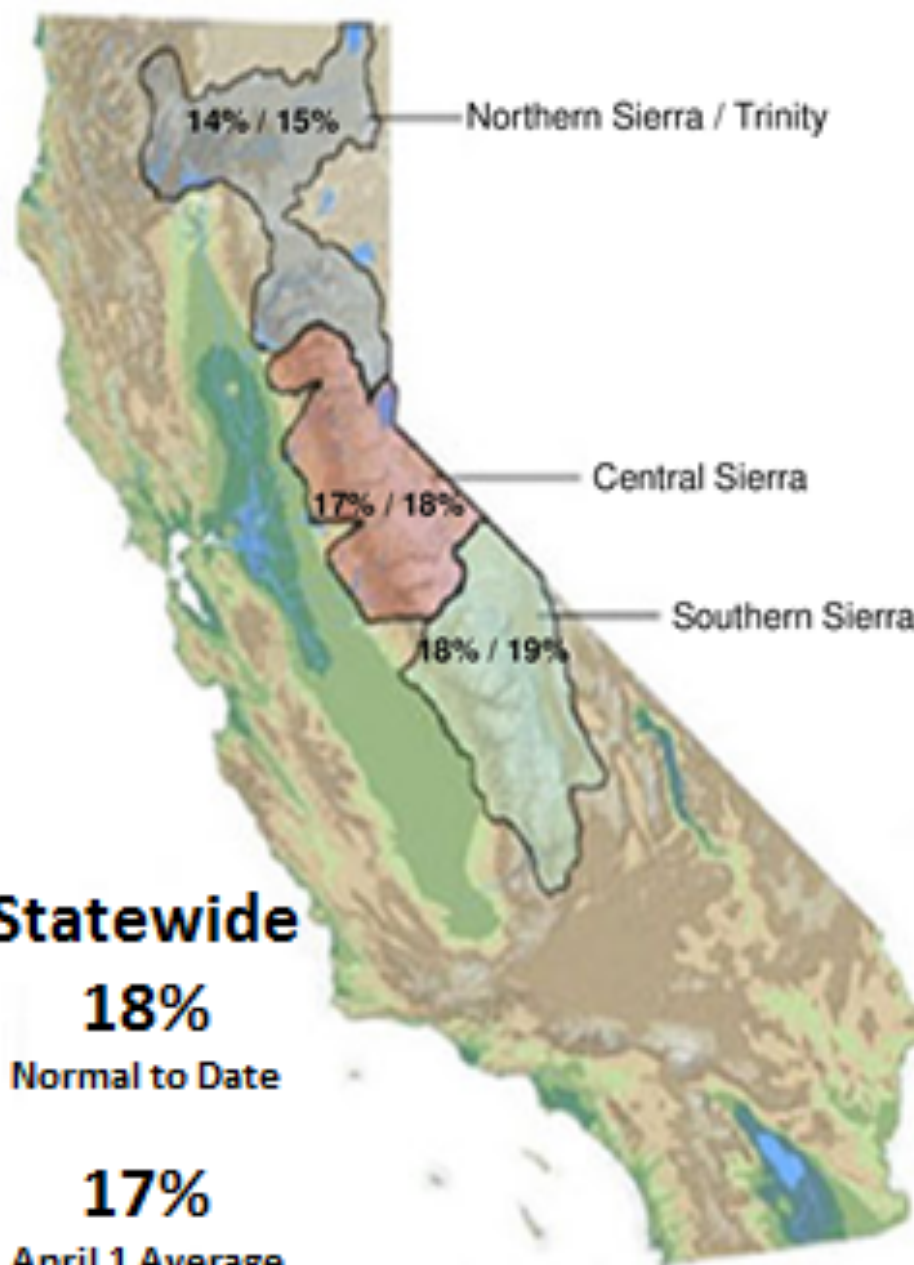
Graph Updated 03/10/2015 08:15 AM



	% Cap	% Avg
Trinity	47	63
Shasta	58	77
Oroville	50	70
Folsom	58	101
New Melones	25	41
San Luis	66	77

PREPAREDNESS & RESPONSE

% of April 1 Average / % of Normal for This Date



## Snow Water Equivalents

### NORTH

Data as of March 10, 2015

Number of Stations Reporting	31
Average snow water equivalent (inches)	4.1
Percent of April 1 Average (%)	14
Percent of normal for this date (%)	15

### CENTRAL

Data as of March 10, 2015

Number of Stations Reporting	42
Average snow water equivalent (inches)	5.3
Percent of April 1 Average (%)	17
Percent of normal for this date (%)	18

### SOUTH

Data as of March 10, 2015

Number of Stations Reporting	29
Average snow water equivalent (inches)	4.9
Percent of April 1 Average (%)	18
Percent of normal for this date (%)	19

### STATE

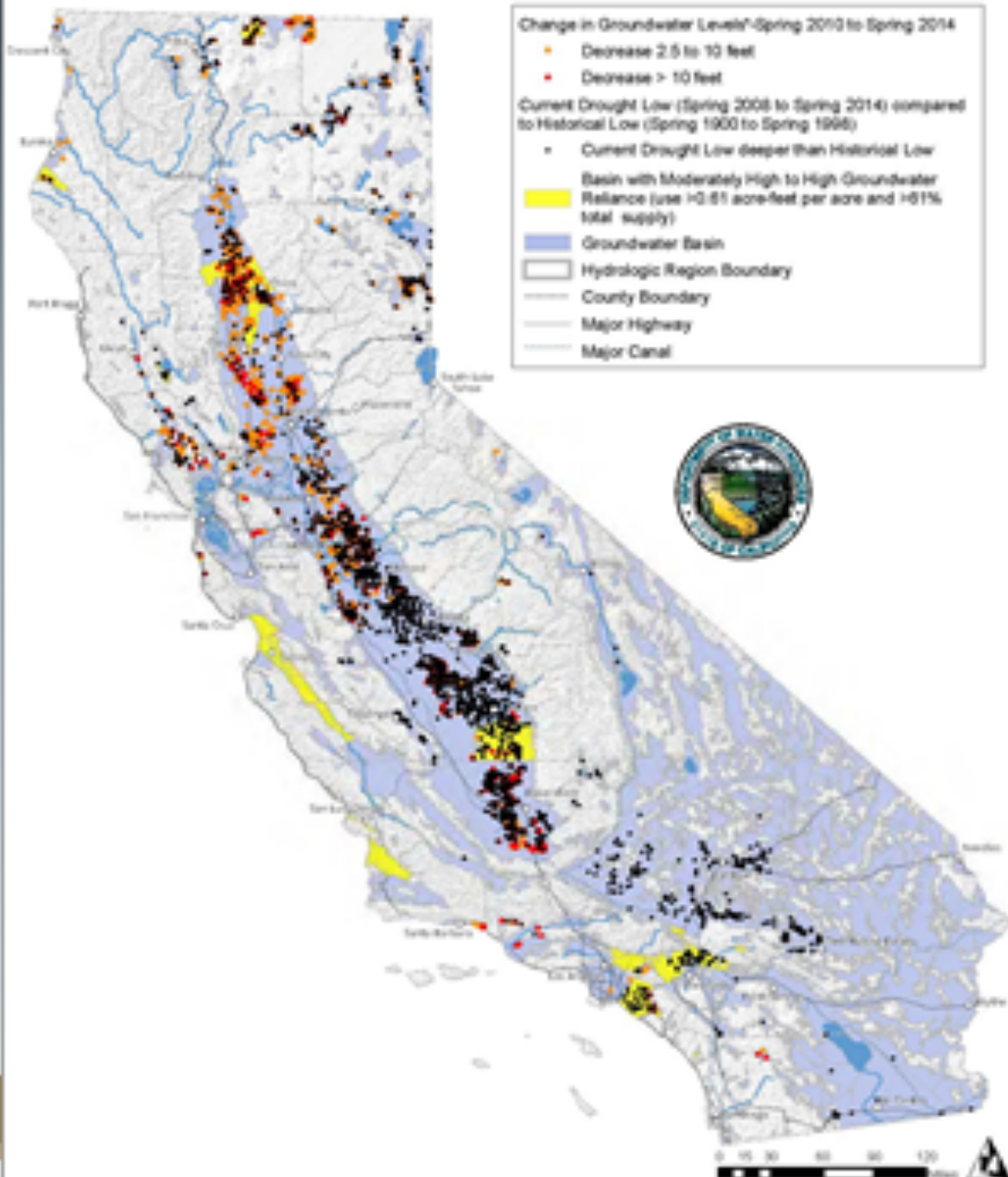
Data as of March 10, 2015

Number of Stations Reporting	102
Average snow water equivalent (inches)	4.8
Percent of April 1 Average (%)	17
Percent of normal for this date (%)	18



# Groundwater Conditions

**Black Dots =  
Groundwater Level  
at Lowest Recorded**





# Possible Drought Actions for 2015

- **Mandatory Conservation (State Water Board)**
- **Increased Conservation Reporting (State Water Board)**
- **Curtailments State Water Board (Water Rights)**
- **Increased Groundwater Use Oversight**
- **Increased Real-time Data and Information**
- **IRWM Funding - Final Prop 84 Round (\$230M)**
- **Water / Energy Grants (\$9M)**
- **Small Project Emergency Funding**

# KEEP SAVING CA



KEEP SAVING  CA  
saveourwater.com

Save Our  
WATER

# CONTACTS



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# Department of Water Resources



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Executive Manager for Climate Change

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(916) 651-9657



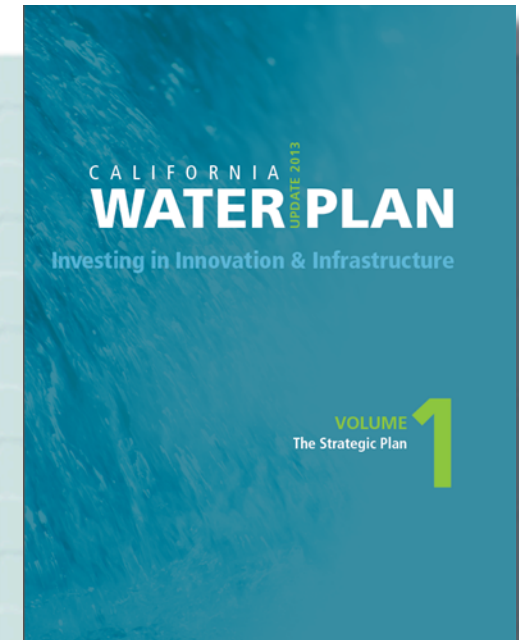
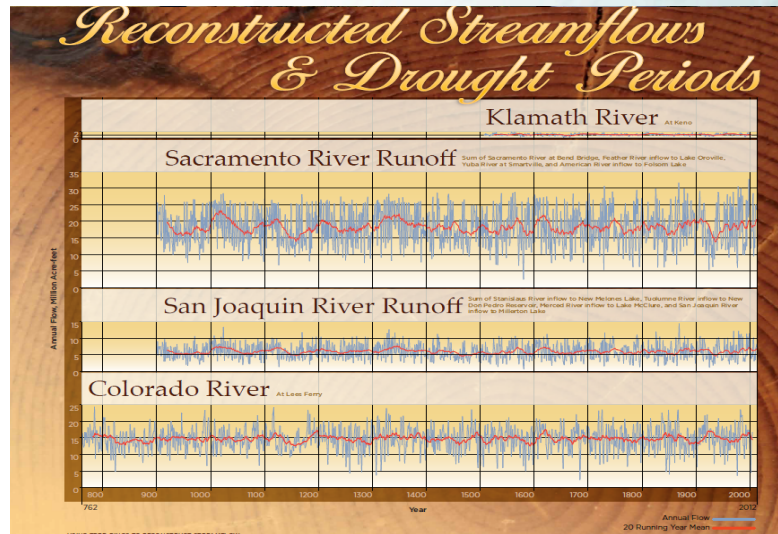
# Climate Change at DWR: Paleoclimate Study



John Andrew  
Executive Manager for Climate Change

# Recent Activities

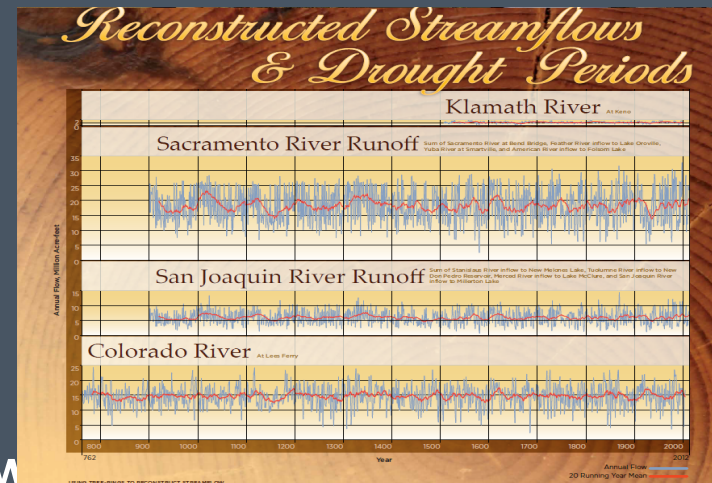
- ❖ CA Water Plan Update 2013
- ❖ CA-LCC TEK Training Workshop
- ❖ Paleoclimate Tree Ring Study





# Paleoclimate Tree Ring Study Overview

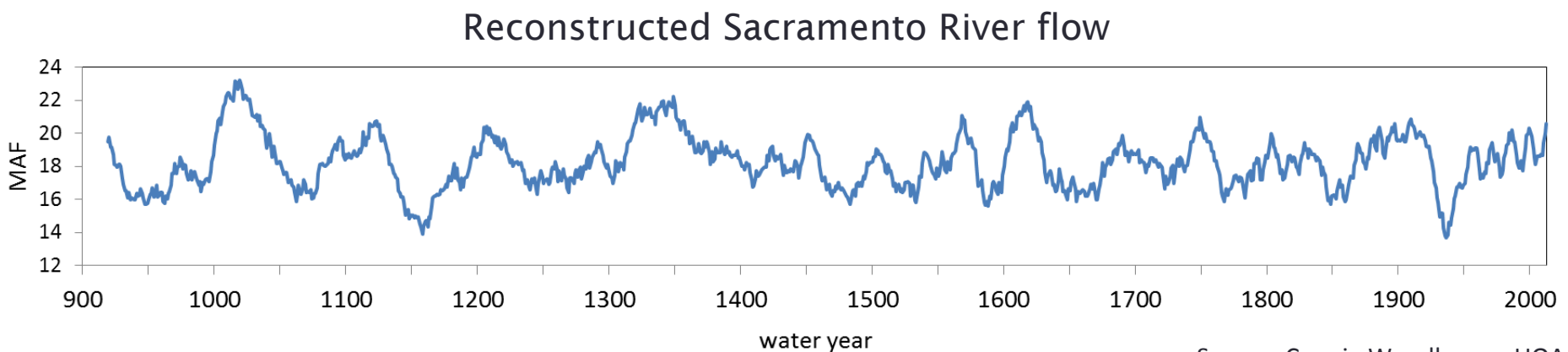
- ❖ Funded by DWR and USBR WaterSmart Program
- ❖ Study conducted by University of Arizona
- ❖ Completed in 2014
- ❖ Available at: [http://www.waterconditions/docs/tree\\_ring\\_report\\_for\\_web.pdf](http://www.waterconditions/docs/tree_ring_report_for_web.pdf)



# Paleoclimate Tree Ring Study

## Key Findings

- ❖ Instrumental period (1906-2012) has been extremely variable in the long-term hydroclimatic context
- ❖ The 1920s-30s contained severe drought - even in millennium-context - but instrumental period does not contain the driest single years or multi-decadal (50-yr) periods
- ❖ Comparison of reconstructed flow in the Klamath, Sacramento, and San Joaquin basins suggests region-wide droughts occur.



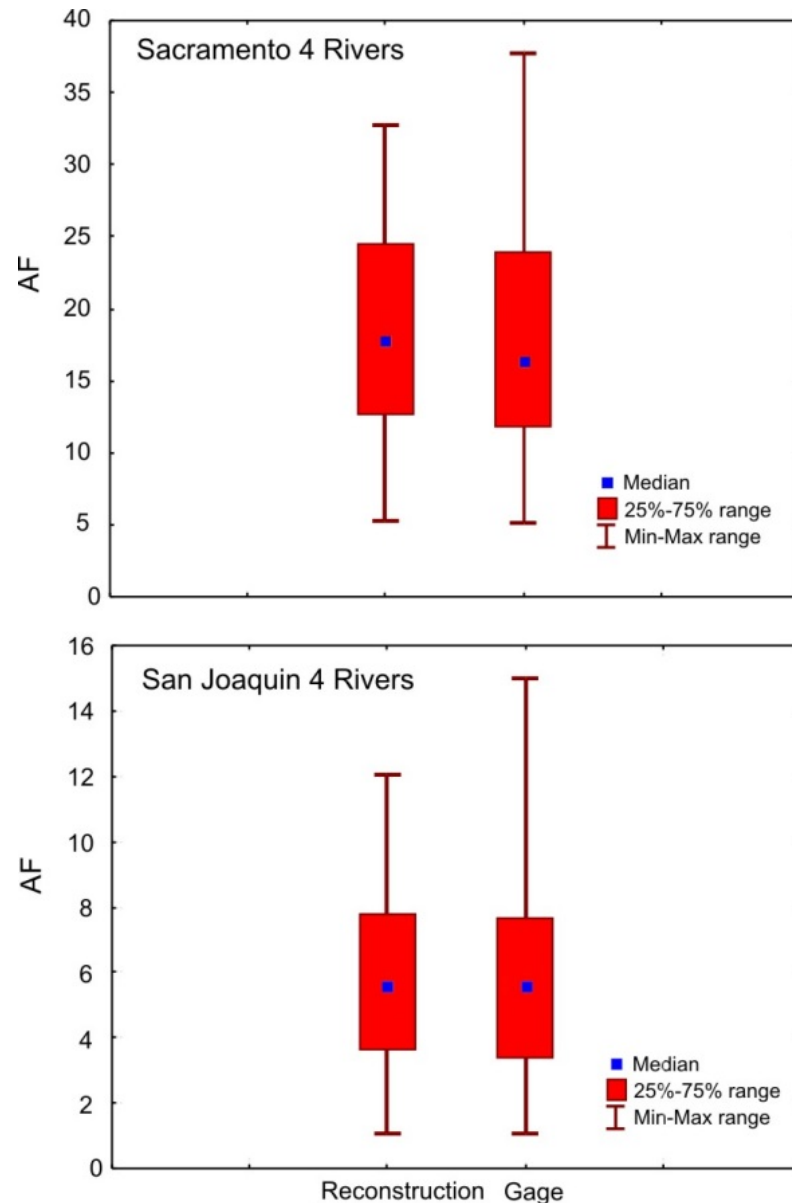
Source: Connie Woodhouse, UOA



# Sacramento and San Joaquin Rivers:

Comparison of gage record and reconstruction characteristics, 1906-2011

- median
- range
- maximum and minimum



# Sacramento River Steamflow (maf)

## 20 lowest flow single years and multi-year averages, 900-2012

rank	single yr		3 yr		6 yr		10 yr		20 yr		50 yr	
1	1580	2.399	1580	8.747	1934	10.864	1933	12.341	1936	13.691	1175	15.601
2	1924	5.329	1581	8.837	1992	11.734	1935	12.405	1935	13.807	1177	15.670
3	1729	5.339	1796	9.228	1933	11.778	1934	12.661	1937	13.867	1179	15.682
4	1977	5.973	1931	9.361	1846	11.808	1931	13.015	1158	13.881	1178	15.710
5	1829	6.071	1655	9.832	1931	11.905	1932	13.079	1934	14.304	1180	15.768
6	1841	6.128	1977	9.862	1935	11.935	1936	13.216	1162	14.331	1176	15.768
7	1783	6.161	1778	10.023	1480	12.225	1580	13.552	1157	14.338	1174	15.834
8	1795	6.209	1783	10.759	1481	12.562	1482	13.554	1159	14.385	1172	15.866
9	1931	6.231	1845	10.875	1932	12.600	1937	13.561	1939	14.459	1173	15.940
10	1571	6.633	981	11.019	1929	12.642	1148	13.648	1156	14.517	1181	15.968
11	1126	6.732	1146	11.100	1845	12.673	1483	13.846	1938	14.616	1183	16.037
12	1532	6.799	1961	11.369	1148	12.719	1481	13.881	1160	14.695	1187	16.037
13	1864	6.913	1481	11.433	1156	12.745	1783	13.933	1161	14.702	1171	16.038
14	1529	6.918	1757	11.491	1520	12.792	1152	13.934	1148	14.817	1170	16.070
15	1632	7.357	1156	11.495	1157	12.835	1929	13.993	1164	14.859	1188	16.119
16	1285	7.441	1846	11.527	981	12.845	1849	14.055	1152	14.874	1168	16.148
17	957	7.489	1992	11.567	1521	12.953	1157	14.089	1154	14.886	1189	16.156
18	1691	7.512	1145	11.591	1580	12.958	1480	14.110	1940	14.903	1182	16.157
19	1579	7.596	1933	11.600	1844	12.966	1159	14.112	1155	14.925	1185	16.161
20	1976	7.616	980	11.650	1158	13.021	1158	14.115	1163	14.934	1186	16.163

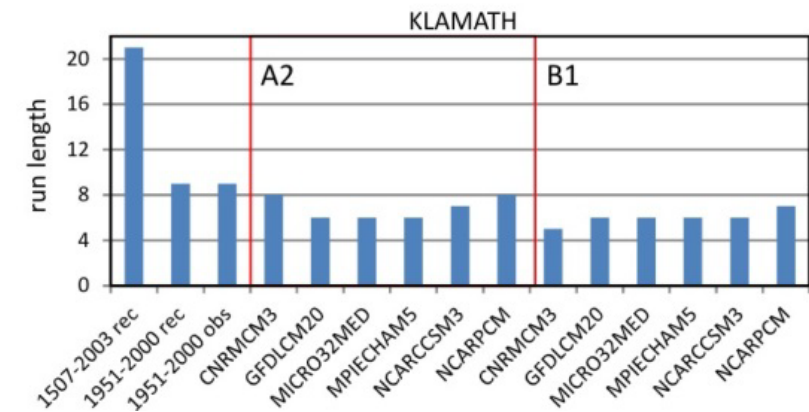
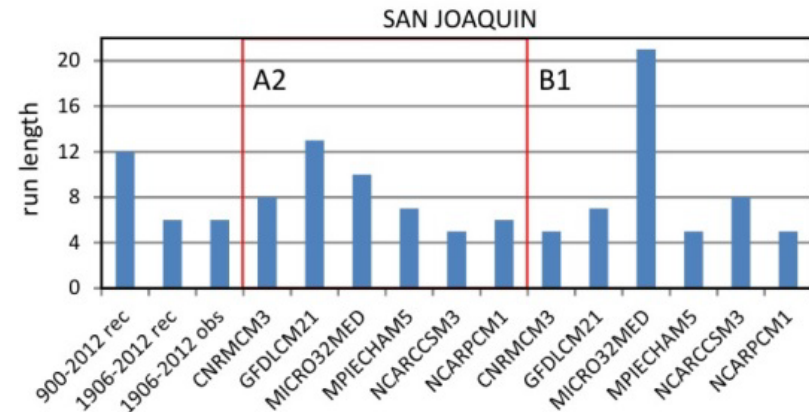
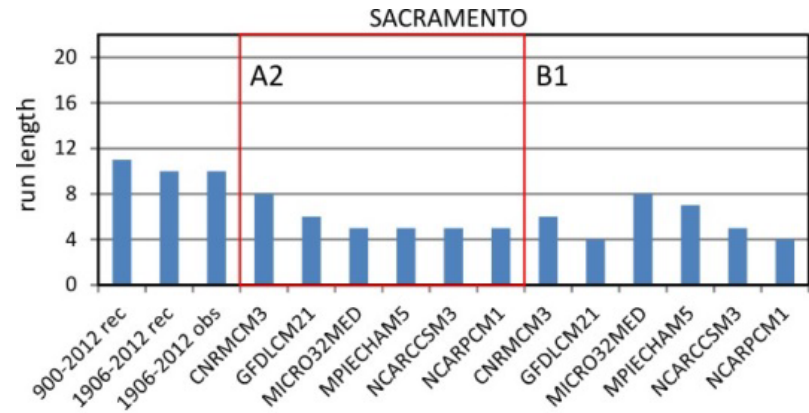
Colors indicate 20<sup>th</sup> & 21<sup>st</sup> century occurrences

Source: Connie Woodhouse, UOA

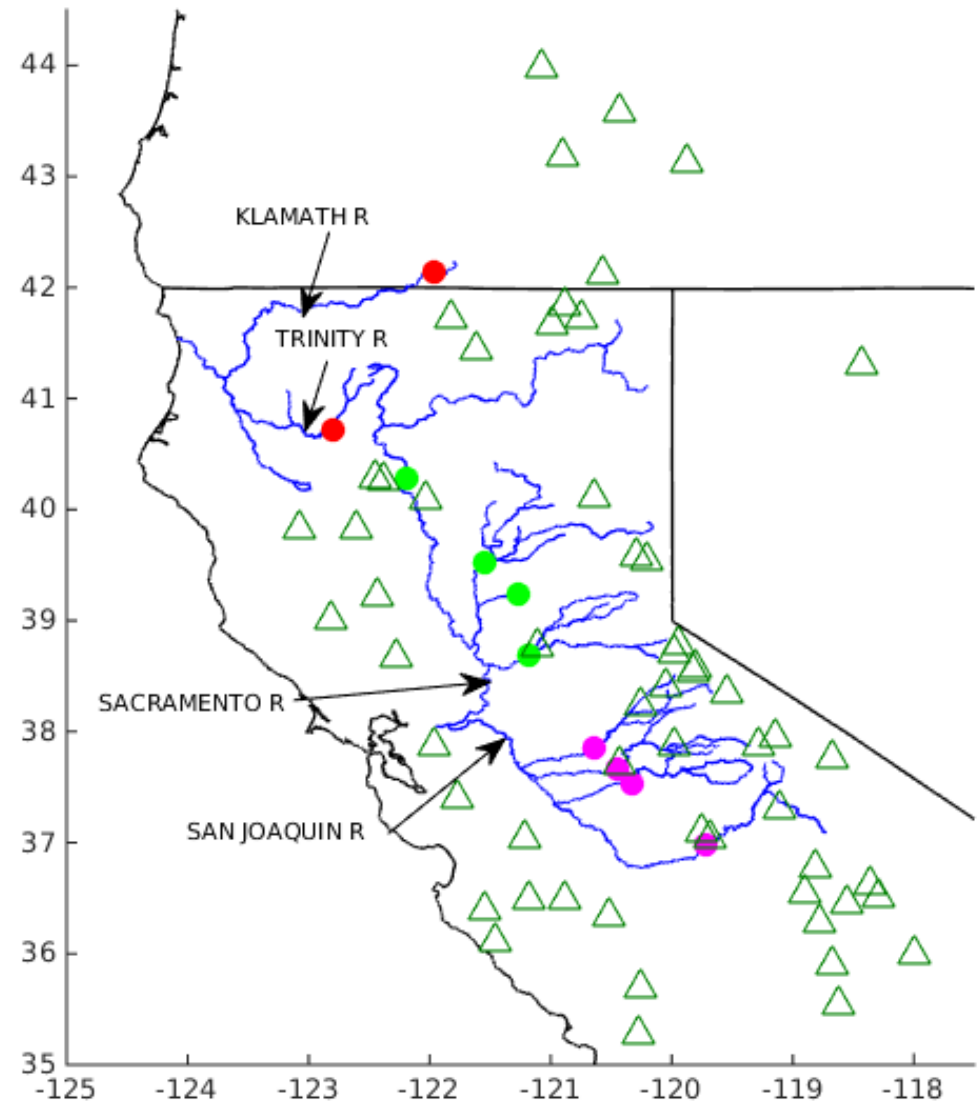
# Climate Change Context

## Maximum runs of drought years:

- Reconstructed, full and instrumental period
- Gage records
- Projected flows from downscaled GCMs for A2 and B1 scenarios, 1950-2099



Locations of gages and tree-ring chronologies used to reconstruct water year streamflow for this project

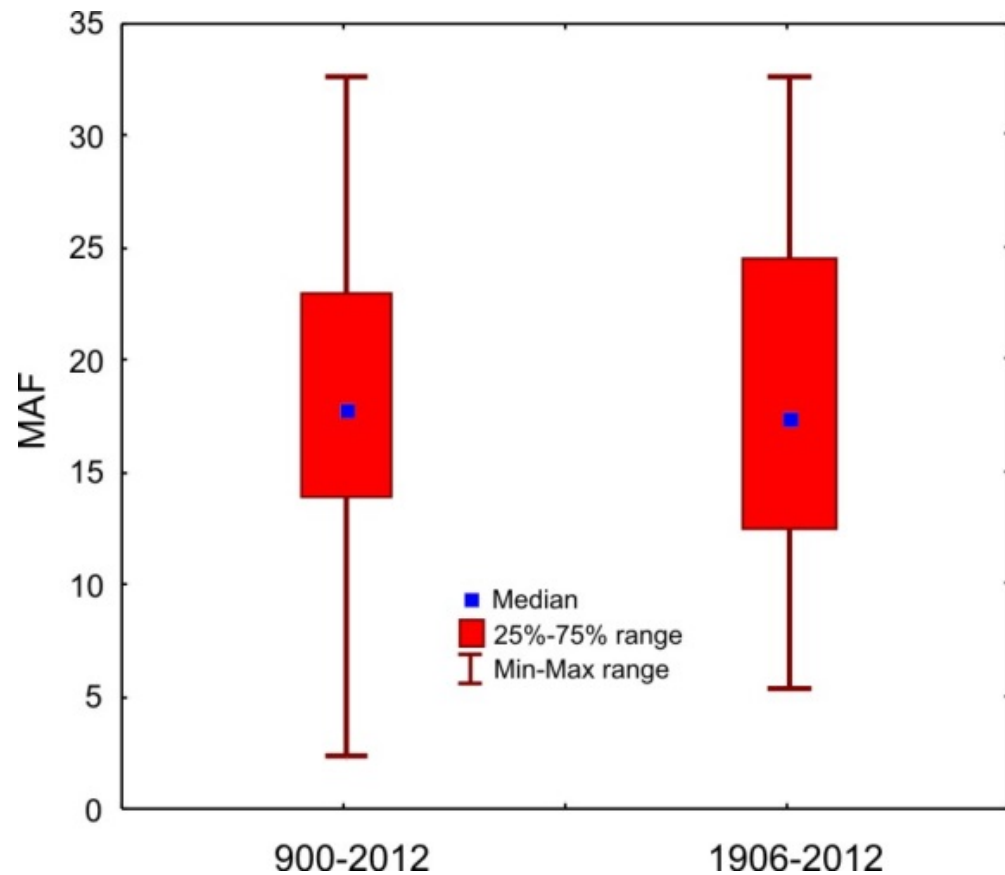




# Reconstructed Sacramento River Streamflow:

Comparison of gage  
period and full  
reconstruction  
characteristics

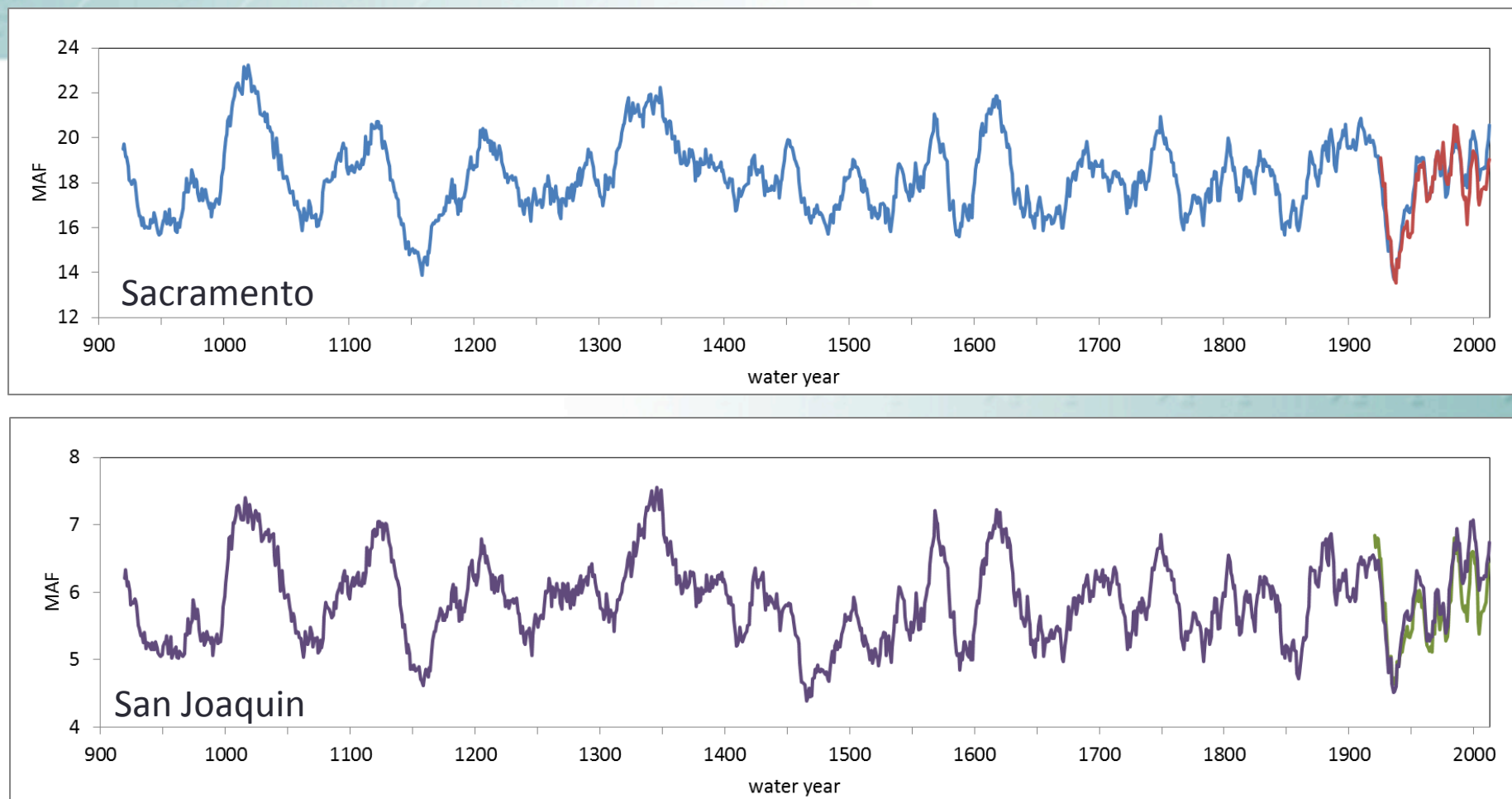
- median
- range
- maximum and minimum



Source: Connie Woodhouse, UOA

# Full Sacramento and San Joaquin River Reconstructions, 900-2012

smoothed with a 20-year running average  
with gage records



Source: Connie Woodhouse, UOA

# San Joaquin Rivers Streamflow (maf)

## 20 lowest flow single years and multi-year averages, 900-2012

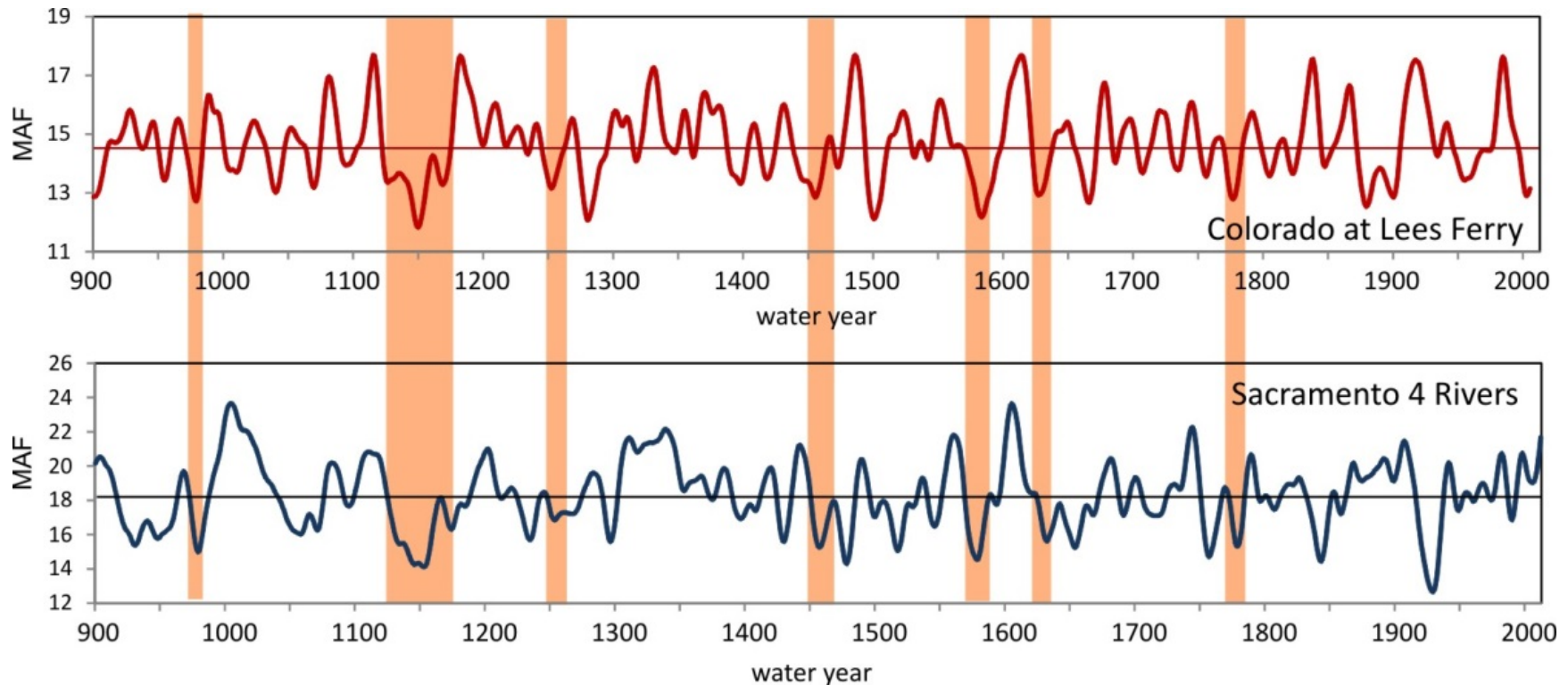
rank	single yr		3 yr		6 yr		10 yr		20 yr		50 yr	
1	1580	0.575	1655	2.292	1846	3.377	1933	3.825	1465	4.390	1500	4.940
2	1924	1.064	1796	2.376	1931	3.429	1461	3.904	1466	4.424	1499	4.973
3	1795	1.185	1580	2.402	1934	3.438	1934	3.939	1468	4.447	1501	4.987
4	1532	1.277	1931	2.499	983	3.505	1459	3.941	1469	4.466	1483	5.016
5	1126	1.284	1581	2.590	1480	3.600	1460	3.968	1935	4.519	1492	5.023
6	1729	1.453	1778	2.663	1845	3.668	1935	3.971	1936	4.522	1480	5.026
7	1829	1.473	1845	2.725	981	3.686	1482	3.978	1467	4.574	1497	5.029
8	1864	1.564	1783	2.782	982	3.700	1931	4.004	1937	4.602	1502	5.038
9	957	1.593	1961	2.836	1933	3.729	1783	4.011	1158	4.614	1479	5.041
10	1632	1.666	980	2.940	1783	3.732	1932	4.019	1464	4.632	1481	5.042
11	1841	1.687	981	2.976	980	3.759	1483	4.056	1463	4.634	1498	5.048
12	1931	1.687	1846	3.068	1782	3.765	984	4.060	1934	4.646	1495	5.060
13	1783	1.697	1757	3.082	1992	3.766	1481	4.064	1462	4.660	1493	5.066
14	1579	1.719	1977	3.102	1929	3.769	1480	4.099	1461	4.670	1482	5.067
15	1782	1.768	1858	3.111	1481	3.784	1784	4.145	1483	4.676	1485	5.070
16	1655	1.834	1654	3.131	1461	3.858	1465	4.197	1157	4.687	1486	5.077
17	1777	1.893	979	3.194	1457	3.875	986	4.238	1482	4.703	1491	5.081
18	1059	1.902	1737	3.201	1459	3.877	1462	4.275	1156	4.704	1496	5.085
19	954	1.908	1824	3.205	1670	3.887	1849	4.275	1859	4.717	1487	5.097
20	1529	1.967	1795	3.217	1844	3.908	983	4.279	1159	4.717	1484	5.100

Colors indicate 20<sup>th</sup> & 21<sup>st</sup> century occurrences

Source: Connie Woodhouse, UOA

# Shared periods of drought, Sacramento and Colorado River flows

900-2005, smoothed with a 20-yr filter



Source: Connie Woodhouse, UOA



# Department of Water Resources



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# PROPOSITION 1 WATER BOND

## DWR GRANTS

Chapter 7 Regional Water Reliability	\$810 million
Chapter 9 Water Recycling	\$725 million
Chapter 10 Groundwater Sustainability	\$100 million
Chapter 11 Flood Management	\$395 million

# CHAPTER 7 REGIONAL WATER RELIABILITY



- \$810M Regional Water Security
  - \$510M Integrated Regional Water Management
    - FY15-16 Proposed Budget = \$32.8M
    - Administered by DWR
  - \$100M Water conservation & water use efficiency
    - FY 15-16 Proposed Budget = \$23.2M
    - Administered by DWR
  - \$200M Multi-benefit stormwater management
    - FY 15-16 Proposed Budget = \$0.6M
    - Administered by SWRCB

# CHAPTER 8 WATER STORAGE INVESTMENT PROGRAM



- Implemented by the California Water Commission
- \$2.7 Billion available from Proposition 1 for the Public Benefits of qualified water storage projects
- Eligible projects include Surface Storage (CALFED, local, and regional), Groundwater Storage, Conjunctive Use and Reservoir Reoperation
- Public Benefits Include:
  - Ecosystem Improvements
  - Water Quality Improvements
  - Flood Control
  - Emergency Response
  - Recreation



# CHAPTER 9 WATER RECYCLING



- \$725M Water Recycling
  - Water recycling, desalination, & advanced treatment technology
  - FY 15-16 Proposed Budget
    - Desalination \$5.5M
      - Administered by DWR
    - Recycling and Treatment Technology \$131.7M
      - Administered by SWRCB

# CHAPTER 10 GROUNDWATER SUSTAINABILITY



- \$900M Groundwater Sustainability
  - \$800M Prevention & cleanup of groundwater pollution
    - FY 15-16 Proposed Budget = \$0.6M
    - Administered by SWRCB
  - \$100M Local plans & projects to manage groundwater (Grants)
    - FY 15-16 Proposed Budget = \$21.3M
    - Administered by DWR

# CHAPTER 11 FLOOD MANAGEMENT



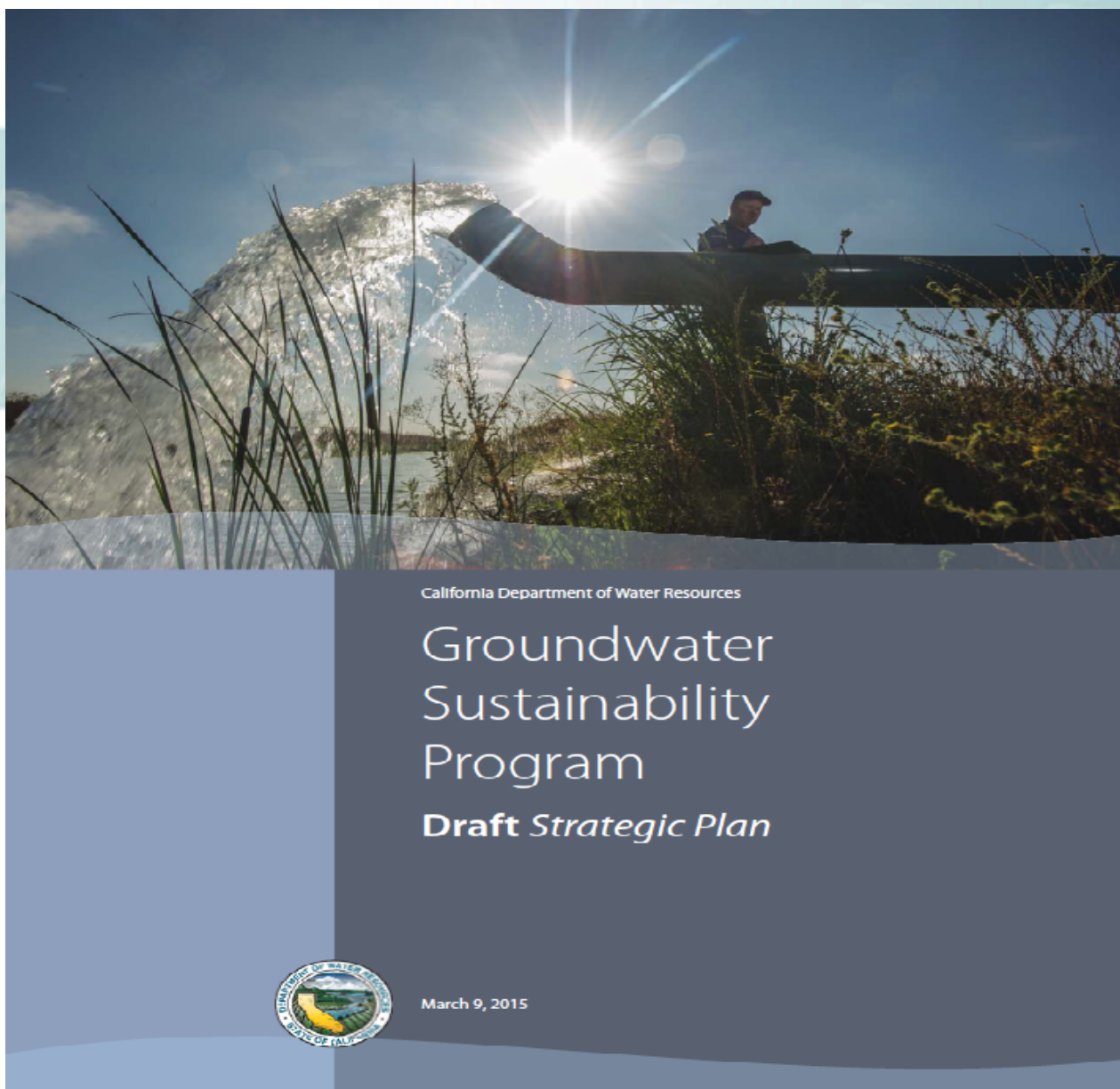
- \$395M Flood Management
  - \$295M Reduce risk of levee failure & flooding in the Delta
  - \$100M Statewide flood management
- Administered by DWR and the Central Valley Flood Protection Board
- No funds requested in FY 15-16

# ELIGIBLE APPLICANTS



- Public Agencies
- Nonprofit Organizations
  - 501.(c)(3) qualified to do business in California
- Federally recognized Indian Tribes
- State Indian Tribes listed on NAHC consultation list
- Public Utilities
- Mutual Water Companies





[http://www.water.ca.gov/groundwater/sgm/pdfs/DWR\\_GSP\\_DraftStrategicPlanMarch2015.pdf](http://www.water.ca.gov/groundwater/sgm/pdfs/DWR_GSP_DraftStrategicPlanMarch2015.pdf)

# **Indian Health Service California Area Office of Environmental Health & Engineering (OEHE)**



**Donald Brafford, P.E., Director**

Division of Sanitation Facilities Construction

Indian Health Service, California Area

# General Updates and Activities



1. Monitoring Tribal water systems for “High Risk and Moderate Risk” determination.
2. Continue outreach to Tribes to maintain and develop Drought Contingency Plans.
3. IHS will fund 8 drought-related projects for \$3,048,905 in 2015.
4. IHS has identified 65 drought-related projects at a total cost of \$34 million if extreme drought conditions continue in 2015.

# IHS California Area Drought Website

California Area  
INDIAN HEALTH SERVICE

[CA Home](#)
[CA Site Map](#)
[CA Member Portal Access](#)

HEALTH PROGRAMS
TRIBAL CONSULTATION
NEWS & EVENTS
ABOUT US
OFFICES
FAQS

CA Member Portal Access

## Drought 2014

Planning for drought conditions and possible impacts to Indian community water systems.

[LEARN MORE](#)

FOR PATIENTS

FOR HEALTH CARE PROFESSIONALS

TRIBAL RESOURCES

**CA Area Director's Message**  
April is Alcohol Awareness Month

[Read More >](#)

**Mission Statement**  
The overall mission of the Indian Health Service (IHS) is to raise the physical, mental, social and spiritual health of American Indians and Alaska natives (AI/AN) to the highest level.

[Read More >](#)

**California YRTC Project**  
IHS California Area Office is planning to build California's first IHS-operated Youth Regional Treatment Centers (YRTC).

[Read More >](#)

### WHAT'S NEW

5/19/14 - 5/21/14

[2014 Providers Best Practices & GPRA Measures Continuing Medical Education](#)  
APRIL 25, 2014

[FY 2014 Q3 GPRA Reporting Instructions](#)  
MARCH 27, 2014

[Southern California Youth Regional Treatment Center \(link to non-IHS.gov site\)](#)  
This is a SOURCE SOUGHT SYNOPSIS  
Solicitation Number: 14-161-SOL-00010  
APRIL 9, 2014

[State of California - Health Advisory - Measles Update](#)  
Measles activity continues to be high in California this year.  
4/22/14 - 4/24/14

[RPMS QMAN/VGEN/Reporting](#)  
MAY 1, 2014

[RPMS Immunization Package 101](#)  
MAY 22, 2014

[California Special Diabetes Program for Indians \(SDPI\) Meeting](#)  
MARCH 20, 2014

[Doing Business with IHS \(PDF\)](#)  
PowerPoint presentation on doing business with IHS, from the OEH&E Sanitation Facilities Construction department.  
JUNE 23-26, 2014

Author:  
David Simeral  
Western Regional Climate Center

USDA  
National Drought Mitigation Center

<http://droughtmonitor.unl.edu/>

Source: National Drought Mitigation Center at the University of Nebraska

### General drought facts/information:

[Map of Drought Locations in California](#) University of Nebraska

[Saving our Water](#) Save our Water

[California Water Fact Sheet \(EPA\)](#) (PDF) Environmental Protection Agency

### Drought contingency planning tools/resources:

[Drought Assessment Form for Tribal Drinking Water Systems](#) (PDF)

[Map of California Tribal Water Systems at Highest Risk Due to Drought Conditions](#) (PDF)

[Drought Contingency Plan TEMPLATE](#) (DOCX)

[List of local Office of Emergency Services by County](#) State of California, Offices of Emergency Services

[Free California Drinking Water Workshops](#) (PDF) Rural Community Assistance Corporation

[Emergency Community Water Assistance Grants \(USDA\)](#) (PDF) US Department of Agriculture

[US Bureau of Reclamation Water Shortage Contingency/Drought Planning Handbook](#) (PDF) US Bureau of Reclamation

[List of California licensed water haulers](#) (PDF) State of California, Department of Public Health

### Public health tools/resources:

[Emergency Preparedness - Hospital Water Disruption Best Practices](#) California Hospital Association

[When Every Drop Counts: Protecting Public Health During Drought Conditions](#) (PDF) Centers for Disease Control and Prevention

[Public Health and Drought](#) (PDF) Centers for Disease Control and Prevention



# IHS Local Area Office Drought Contacts



Listed below are the Indian Health Service office locations and contacts for drought assistance. Please contact the office nearest you.

Location	Primary contact name	Phone number
Arcata Field Office	Barry Jarvis	(707) 822-1688
Redding District Office	Andy Huray	(530) 246-5339
Ukiah Field Office	Charles Thompson	(707) 462-5314
Sacramento District Office	David Mazorra	(916) 930-3960
Clovis Field Office	Matt Mergenthaler	(559) 322-7488
Escondido District Office	Sean Bush	(760) 735-6880

For additional information, please see the IHS California Area website at:  
<http://www.ihs.gov/california/index.cfm/about-us/field-offices/>

# **Open Forum for Tribal Feedback and Discussion**

1. Tribal Chairman
2. Tribal Designee
3. Open Forum

# **Governor's Drought Task Force Government-to-Government Conference Webinar/ Call Meetings**

## **SAVE THE DATE:**

- Tuesday, May 19, 2015



# THANK YOU

**Cynthia Gomez**

**Tribal Advisor**

Office of Tribal Advisor

Office of Governor Edmund G. Brown Jr.

1550 Harbor Boulevard, Suite 100

West Sacramento, California 95691

Office: (916) 373-3718

**For more information contact:**

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